INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/31028

		FC1/0304/31028	<u></u>	
A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : H04B 3/04; H01P 1/22, 5/12; H03H 7/18				
US CL: 333/18, 117, 138, 156				
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
U.S.: 333/18, 28R, 81R, 117, 118, 138, 156				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
East, EPO, JPO, Derwent				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
hybrid, coupler, attenuator, delay, adjustable				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ontonriate of the relevant passages	Relevant to claim No.	
X				
	US 5,355,103 A (KOZAK) 11 October 1994 (11.10.1994), figure 1, spec all. 1,2,7		1,2,7	
Y			3-6	
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A	A US 5,019,793 A (MCNAB) 28 May 1991 (28.05.1991), spec all.		all	
A US 4,153,886 A (MIEDEMA) 8 May 1979 (08.05.1979), spec all.		all		
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Further	r documents are listed in the continuation of Box C.	See patent family annex.		
Special categories of cited documents:		"T" later document published after the international filing date or priority		
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the appl principle or theory underlying the in	ication but cited to understand the	
		principle of dicory underlying the invention		
	Variation and the state of the	"X" document of particular relevance; the		
"E" earlier ap	pplication or patent published on or after the international filing date	considered novel or cannot be considered novel or cannot be considered when the document is taken alone	ered to involve an inventive step	
	it which may throw doubts on priority claim(s) or which is cited to			
establish specified	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive st		
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other su	ch documents, such combination	
		being obvious to a person skilled in the art		
"P" document published prior to the international filing date but later than the		"&" document member of the same paten	t family	
priority date claimed				
Date of the a	actual completion of the international search	Date of mailing of the international search report		
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22 December 2004 (22.12.2004) Name and mailing address of the ISA/US		Authorized officer		
	alling address of the ISA/OS all Stop PCT, Attn: ISA/US	XIIII TITO		
Commissioner for Patents		Dean O Takaoka S. While Co		
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